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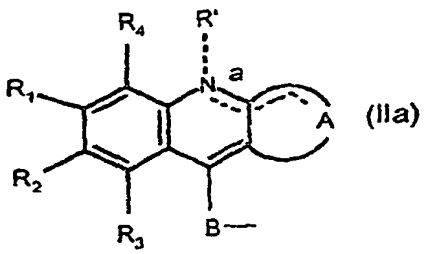
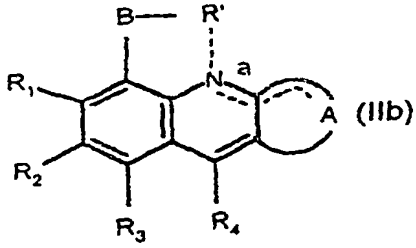
(54) Title: SUBSTITUTED QUINOLINES FOR THE TREATMENT OF CANCER



(IIa)



(IIb)

(57) Abstract: Compounds of formula G_1-L-G_2, where -G_1 is a radical structurally close to cryptolepine, -L- is a single covalent bond or a covalent linking biradical selected from $(CH_2)_rNR'''(CH_2)_s$ and $-(CH_2)_rNR'''(CH_2)_sNR''''(CH_2)_t$-, -R''' and -R'''' are radicals, same or different, selected from the group consisting of H and (C_1-C_3)-alkyl; r , s and t are an integer from 1 to 3 and, -G_2 is H or a radical structurally close to -G_1, are intercalators. They are compounds which intercalate between DNA base pairs, and are useful as therapeutic agents against cancer, as assess by an in vitro test of cytotoxicity with human leukemia cells Jurkat E6-1 and human carcinoma cells GLC-4. Preferred compounds are those where -G_1 is bonded to -L- through a carbonyl amino and -L-is $-(CH_2)_3NCH_3(CH_2)_3$ or $-(CH_2)_2NCH_3(CH_2)_sNCH_3(CH_2)_2$- where s = 2 or 3. -$G_1$ is a radical selected from (IIa) y (IIb); -G_2 is a radical selected from H, a radical of formula (IIa), a radical of formula (IIb), the N-radical of 1,8-naphthalimide, the C4-radical of 2-phenylquinoline, and the C9-radical of acridine.

WO 2005/054236 A1

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